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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/752,893	01/07/2004	Richard Shu-Hua Wu	A01486	4560	
21898 75	98 7590 02/14/2006 EXAM			INER	
ROHM AND HAAS COMPANY PATENT DEPARTMENT 100 INDEPENDENCE MALL WEST			HARLAN, ROBERT D		
			ART UNIT	PAPER NUMBER	
PHILADELPH	IA, PA 19106-2399		1713		

DATE MAILED: 02/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

				16		
		Application No.	Applicant(s)	i		
Office Action Summary		10/752,893	WU ET AL.			
		Examiner	Art Unit			
		Robert D. Harlan	1713			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	orrespondence addres	SS		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DYNAMING BY STATE OF A 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this commu ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on	<u>_</u> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	ion of Claims					
5) <u></u> 6)⊠	Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1	` '		
Priority ι	under 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Staç	ge		
2) 🔲 Notic 3) 🔯 Infor	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:		2)		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere*Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al., U.S. Patent No. 6,696,519, US Pat. Pub. No. US 2002/0068791 with a publication date of

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10/17/2002 (hereinafter "Brown"); in view of Kroner et al., U.S. Patent No. 6,498,219 (hereinafter "Kroner"). Brown teaches a process for preparing an aqueous emulsion polymer including providing at least one ethylenically unsaturated monomer and a free radical red-ox initiator under emulsion polymerization conditions, the red-ox initiator system including a water soluble/water insoluble oxidizing agent and reducing agent. See Brown, Abstract; col. 2, line 20 through col. 3, line 36. Brown teaches a process for reducing the residual ethylenically unsaturated monomer content of an emulsion polymer. See Brown, Abstract; col. 4, line 56 through col. 5, line 16. The present invention differs from Brown in that Brown does not specifically teach the use of a heat exchanger. Kroner teaches, in analogous art, a method for continuously monitoring and controlling the monomer conversion during emulsion polymerization by using a heat exchanger to manipulate the heating and cooling of the reactor. See Kroner, col. 5, line 26 through col. 7, line 67. In view of Kroner, one having an ordinary skill in the art would be motivated to modify Brown by using a heat exchanger in an emulsion polymerization process to monitor the presence of residual monomer. Such modification would be obvious because one would expect that the use of a redox emulsion polymerization process as taught by Brown would be similarly useful and

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applicable to the emulsion polymerization process taught in Kroner.

Conclusion

- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert D. Harlan whose telephone number is (571) 272-1102. The examiner can normally be reached on Mon-Fri, 10 AM 8 PM.
- 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David W. Wu can be reached on (571) 273-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert D. Harlan Primary Examiner Art Unit 1713 Page 5

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